Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P317928

Luminaire Tested: **GLEON-SA4C-830-U-T3R**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P317928
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4C-830-U-T3R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	23181 lumens
Efficiency:	N/A
Efficacy:	103.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B3 - U0 - G4

Input Watts (W):	225
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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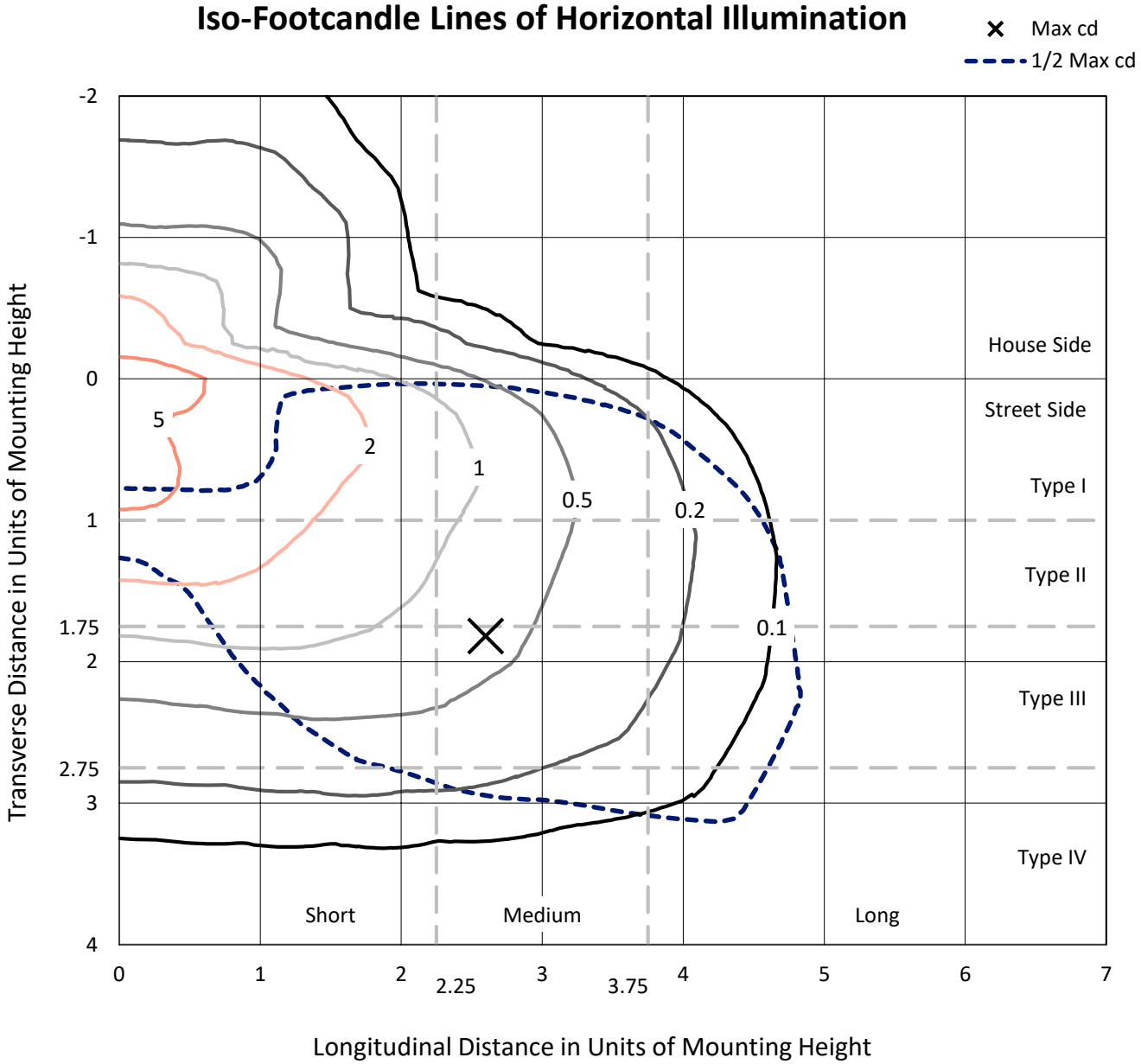
Scaled Data Report

REPORT NUMBER: P317928
CATALOG NUMBER: GLEON-SA4C-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Medium - N/A

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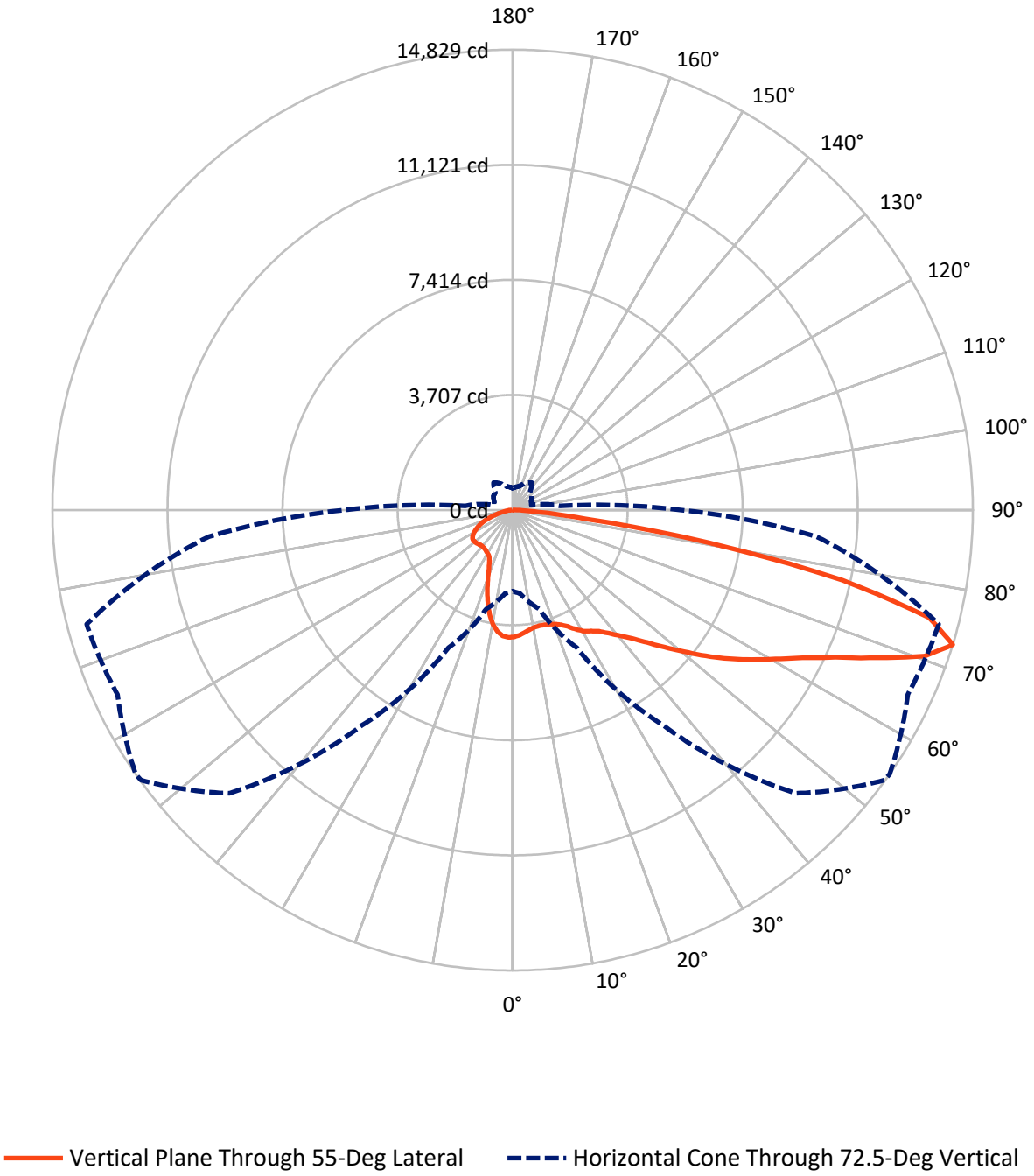
Luminous Intensity Polar Plot



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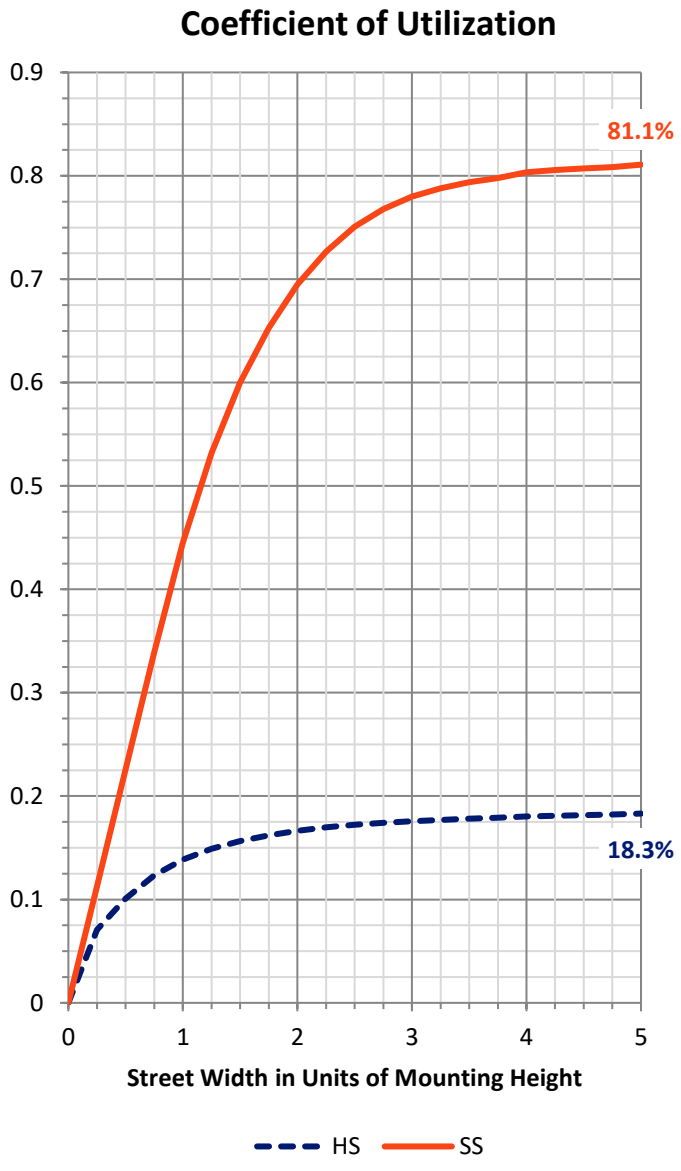
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4308.6	0.0	4308.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18872.4	0.0	18872.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	23181.0	0.0	23181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.0	1.6
10°-20°	985.0	4.2
20°-30°	1624.0	7.0
30°-40°	2402.3	10.4
40°-50°	3353.2	14.5
50°-60°	4365.9	18.8
60°-70°	5365.6	23.1
70°-80°	4206.0	18.1
80°-90°	509.0	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23181.0	100.0
0°-180°	23181.0	100.0



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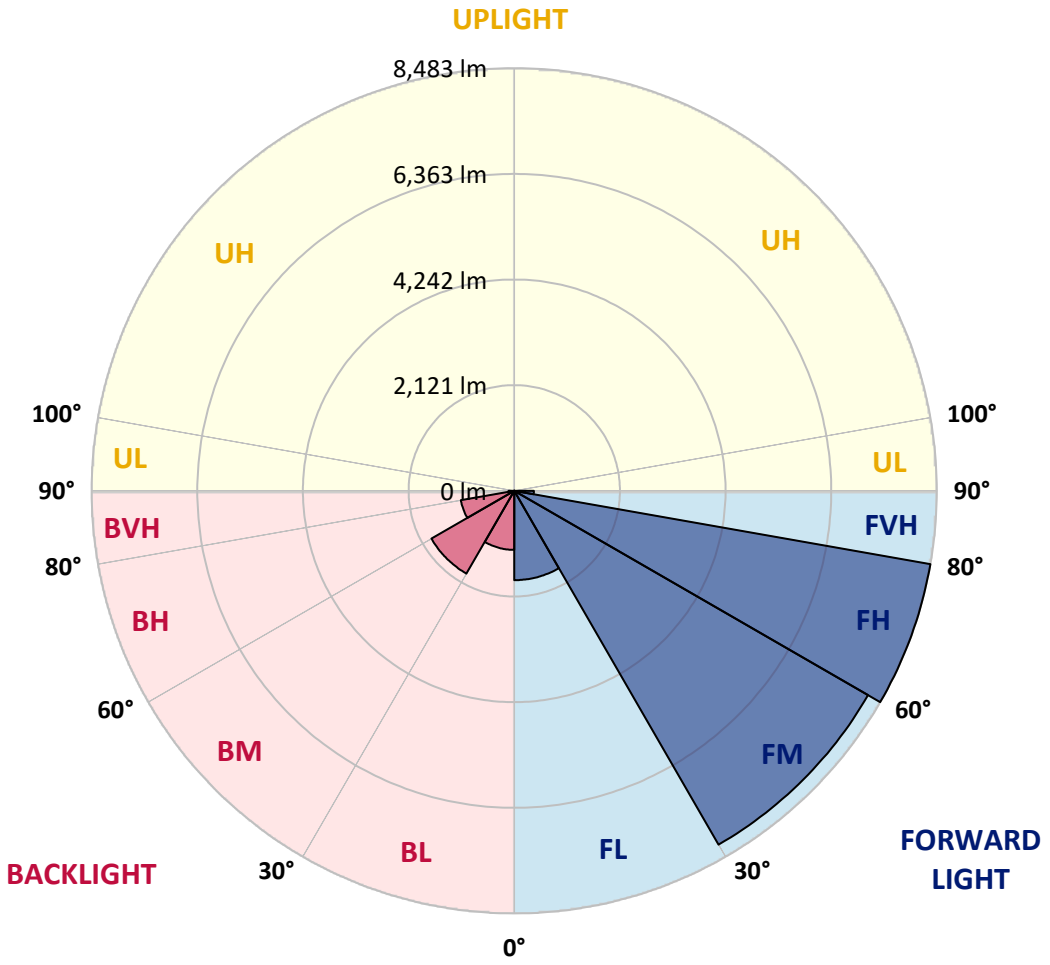
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1793.5	7.7			
FM	(30°-60°)	8201.9	35.4			
FH	(60°-80°)	8483.5	36.6			G4/12000
FVH	(80°-90°)	393.5	1.7			G3/500
BL	(0°-30°)	1185.5	5.1	B3/2500		
BM	(30°-60°)	1919.5	8.3	B2/2500		
BH	(60°-80°)	1088.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	115.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type IV Medium



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REPORT NUMBER: P317928
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6
2.5°	3955.5	3946.1	3957.9	3974.3	3992.3	4016.6	4030.7	4037.0	4061.2	4070.6	4091.0
5°	3772.3	3767.6	3787.2	3815.4	3855.3	3911.7	3957.1	3965.7	4029.9	4075.3	4116.8
7.5°	3639.2	3639.2	3661.9	3695.6	3740.2	3816.2	3880.4	3892.1	4000.9	4098.8	4175.5
10°	3533.5	3537.4	3564.0	3604.0	3656.4	3737.1	3822.4	3835.7	3993.1	4153.6	4275.8
12.5°	3463.0	3472.4	3496.7	3532.7	3597.7	3695.6	3803.6	3821.6	4009.6	4231.9	4396.3
15°	3507.7	3523.3	3525.7	3540.6	3576.6	3683.1	3814.6	3833.4	4044.8	4311.8	4533.4
17.5°	3703.4	3708.9	3684.6	3653.3	3636.1	3704.2	3847.5	3867.1	4087.1	4390.9	4664.9
20°	4000.9	3997.8	3945.3	3860.8	3773.1	3784.1	3901.5	3921.9	4144.2	4460.5	4796.4
22.5°	4376.8	4365.8	4285.2	4129.3	3979.8	3917.2	3996.2	4013.5	4230.3	4560.0	4937.4
25°	4832.4	4808.2	4701.7	4492.6	4272.6	4111.3	4138.7	4155.2	4355.6	4671.2	5066.5
27.5°	5313.2	5288.9	5153.5	4900.6	4607.7	4356.4	4335.3	4349.4	4498.1	4753.4	5162.1
30°	5815.8	5790.0	5666.3	5382.9	4963.2	4610.1	4518.5	4524.0	4598.3	4798.0	5240.4
32.5°	6320.9	6296.6	6158.0	5829.2	5349.2	4882.6	4650.8	4643.7	4658.6	4844.2	5328.8
35°	6832.9	6842.3	6680.2	6316.2	5776.7	5185.6	4807.4	4792.5	4759.6	4938.9	5454.1
37.5°	7381.0	7374.7	7164.9	6784.4	6223.8	5514.4	5032.1	5029.8	4916.2	5118.2	5650.6
40°	7747.4	7751.3	7623.7	7263.5	6675.5	5878.5	5320.2	5314.7	5166.0	5386.8	5908.2
42.5°	7890.7	7916.5	7949.4	7720.8	7148.4	6300.5	5663.9	5656.1	5514.4	5772.0	6211.2
45°	7900.9	7952.5	8156.1	8127.1	7627.6	6783.6	6103.2	6081.3	5979.5	6284.1	6573.0
47.5°	7813.2	7866.4	8204.7	8369.1	8055.9	7293.3	6616.8	6599.6	6511.9	6924.5	6964.5
50°	7621.4	7672.2	8104.4	8487.3	8408.2	7783.4	7208.7	7163.3	7116.3	7664.4	7412.3
52.5°	7262.0	7359.8	7970.6	8515.5	8618.9	8218.8	7831.2	7801.4	7827.3	8445.0	7860.9
55°	6410.9	6520.5	7625.3	8492.0	8774.7	8584.4	8453.6	8452.1	8586.0	9264.0	8342.5
57.5°	5934.1	6011.6	6922.2	8452.1	8959.4	8947.7	9069.8	9084.7	9345.4	10155.8	8846.7
60°	5664.7	5746.2	6565.9	8304.1	9246.0	9417.5	9698.6	9728.3	10117.4	11143.1	9453.5
62.5°	5419.7	5508.9	6345.1	8002.7	9583.5	10089.3	10451.8	10478.4	10934.9	12157.8	10039.9
65°	5000.8	5101.8	6021.8	7804.6	9890.4	10965.4	11409.3	11427.3	11873.6	13221.1	10488.6
67.5°	4408.9	4501.3	5411.8	7366.9	10117.4	12029.4	12682.4	12692.6	12804.6	13972.0	10718.0
70°	3717.5	3752.7	4542.7	6463.4	9848.9	13024.6	14077.7	14080.0	13653.3	14452.7	10680.4
72.5°	2612.0	2695.0	3297.8	4892.7	8463.8	12903.2	14801.9	14828.5	14047.9	14210.0	9827.0
75°	1601.9	1689.6	2068.6	2965.1	5369.6	10148.0	13676.0	13860.8	13308.0	12669.9	8027.7
77.5°	1071.1	1104.0	1349.8	1728.8	2432.7	5838.6	10514.4	10862.0	11055.4	9239.7	5133.9
80°	597.4	660.0	894.9	1074.2	1082.1	2319.9	6304.4	6385.8	6151.0	3679.1	1583.9
82.5°	316.3	350.8	597.4	631.1	590.4	776.7	2349.7	2352.0	1965.2	986.5	470.6
85°	245.1	274.0	409.5	385.2	301.4	344.5	775.1	817.4	668.6	404.0	153.5
87.5°	122.1	151.9	278.0	244.3	118.2	98.7	277.2	296.0	263.9	158.2	55.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

REPORT NUMBER: P317928
CATALOG NUMBER: GLEON-SA4C-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6	4088.6
2.5°	4098.8	4105.9	4114.5	4105.1	4101.9	4089.4	4068.3	4063.6	4052.6	4053.4	4059.7
5°	4134.8	4146.6	4141.9	4105.9	4062.8	4002.5	3939.9	3886.6	3851.4	3849.0	3846.7
7.5°	4203.7	4211.6	4174.8	4072.2	3951.6	3812.2	3680.7	3565.6	3495.9	3478.7	3474.8
10°	4311.8	4310.2	4209.2	4002.5	3762.1	3513.2	3301.8	3142.0	3048.9	3021.5	3014.4
12.5°	4432.4	4414.3	4221.0	3875.7	3494.4	3149.1	2881.3	2703.6	2606.5	2575.2	2567.3
15°	4556.8	4512.2	4192.0	3686.2	3165.5	2756.8	2475.7	2311.3	2258.8	2241.6	2238.5
17.5°	4672.7	4586.6	4109.0	3429.4	2790.5	2366.1	2146.9	2081.1	2093.6	2116.3	2117.1
20°	4786.2	4636.7	3975.9	3105.2	2395.1	2044.3	1969.9	2018.5	2078.0	2124.2	2130.4
22.5°	4898.2	4671.9	3804.4	2731.0	2041.2	1863.5	1915.9	2004.4	2072.5	2122.6	2131.2
25°	4992.2	4680.5	3568.0	2331.7	1795.3	1795.3	1890.1	1973.8	2041.2	2090.5	2099.1
27.5°	5026.6	4622.6	3234.4	1962.1	1671.6	1764.0	1854.1	1923.7	1980.9	2033.4	2042.7
30°	5039.9	4515.3	2849.2	1665.4	1620.7	1730.3	1805.5	1865.0	1919.0	1968.4	1977.0
32.5°	5042.3	4386.2	2440.5	1497.0	1585.5	1695.1	1745.2	1797.7	1855.6	1875.2	1878.3
35°	5057.2	4233.5	2009.9	1410.9	1552.6	1662.2	1702.2	1739.7	1645.8	1652.8	1659.1
37.5°	5100.2	4082.4	1649.7	1362.4	1531.5	1645.0	1692.8	1556.5	1482.9	1465.7	1463.4
40°	5180.9	3921.1	1382.7	1323.2	1523.6	1653.6	1632.5	1453.2	1326.3	1231.6	1217.5
42.5°	5292.8	3747.3	1212.0	1297.4	1529.1	1695.1	1548.7	1353.7	1143.1	1082.1	1074.2
45°	5418.9	3564.8	1119.6	1279.4	1547.9	1727.2	1531.5	1221.4	1057.8	1011.6	1007.7
47.5°	5541.0	3341.7	1071.9	1271.5	1573.8	1701.4	1458.7	1180.7	1017.1	992.8	995.1
50°	5681.2	3140.5	1042.9	1262.9	1596.5	1684.9	1376.4	1159.6	1001.4	1031.2	1062.5
52.5°	5799.4	2932.2	1017.1	1245.7	1605.1	1656.0	1355.3	1163.5	1001.4	1058.6	1088.3
55°	5939.6	2774.8	987.3	1209.7	1588.6	1573.8	1340.4	1187.0	1013.2	977.1	980.3
57.5°	6120.4	2723.1	954.4	1153.3	1533.8	1454.0	1333.4	1209.7	1006.1	983.4	991.2
60°	6371.0	2778.0	941.1	1079.7	1448.5	1360.0	1334.2	1197.9	956.8	917.6	918.4
62.5°	6609.8	2839.0	940.3	1033.5	1343.6	1276.2	1316.2	1159.6	931.7	909.0	917.6
65°	6688.1	2777.2	902.8	981.8	1225.3	1176.0	1283.3	1118.9	912.9	878.5	876.9
67.5°	6583.1	2585.3	826.8	898.1	1089.9	1059.3	1240.2	1070.3	883.2	855.0	850.3
70°	6271.5	2157.1	732.9	787.7	935.6	927.8	1172.1	1013.9	843.3	819.0	798.6
72.5°	*5433.0*	*1537.0*	*617.8*	*655.3*	*761.8*	*786.9*	*1078.1*	*940.3*	*786.9*	*734.4*	*703.1*
75°	4462.1	1137.6	507.4	515.2	578.6	646.7	949.0	854.2	720.3	631.1	606.8
77.5°	2732.5	696.1	404.0	407.1	415.0	516.0	781.4	757.9	635.8	526.2	508.9
80°	884.7	379.7	292.0	306.9	283.4	378.2	604.4	645.2	545.7	440.0	421.2
82.5°	336.7	221.6	197.3	207.5	196.5	253.7	440.8	516.8	447.1	361.7	294.4
85°	162.9	125.3	116.7	130.8	121.4	130.0	281.9	380.5	339.0	235.7	219.2
87.5°	57.9	55.6	44.6	60.3	51.7	46.2	86.1	191.8	223.9	162.1	144.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

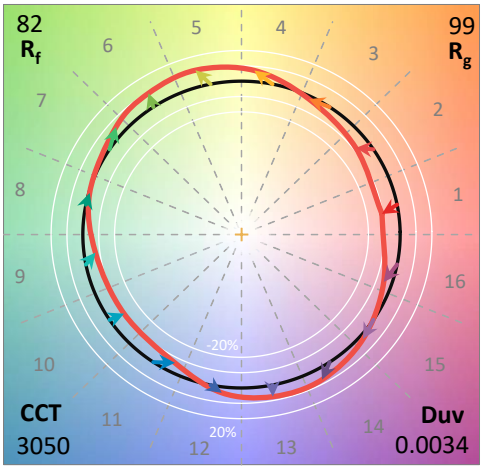
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

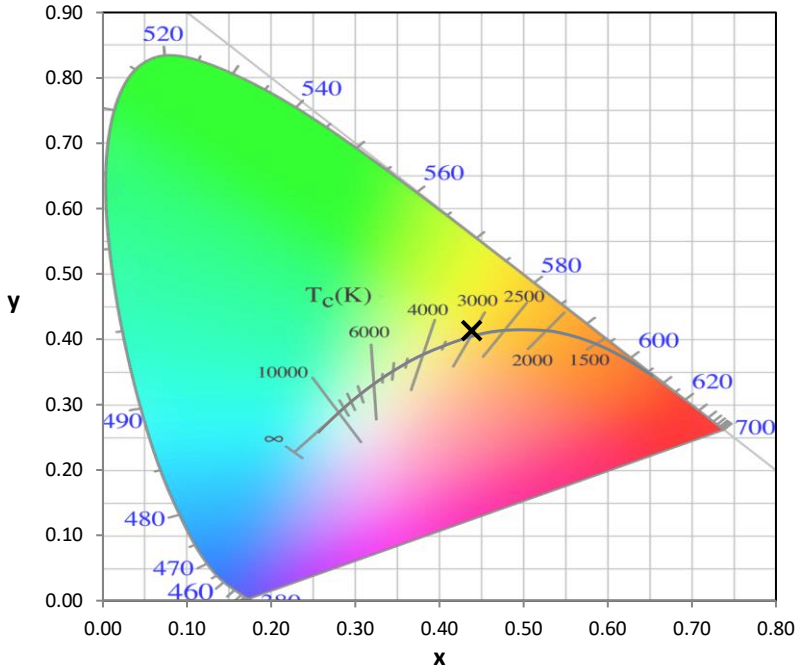
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

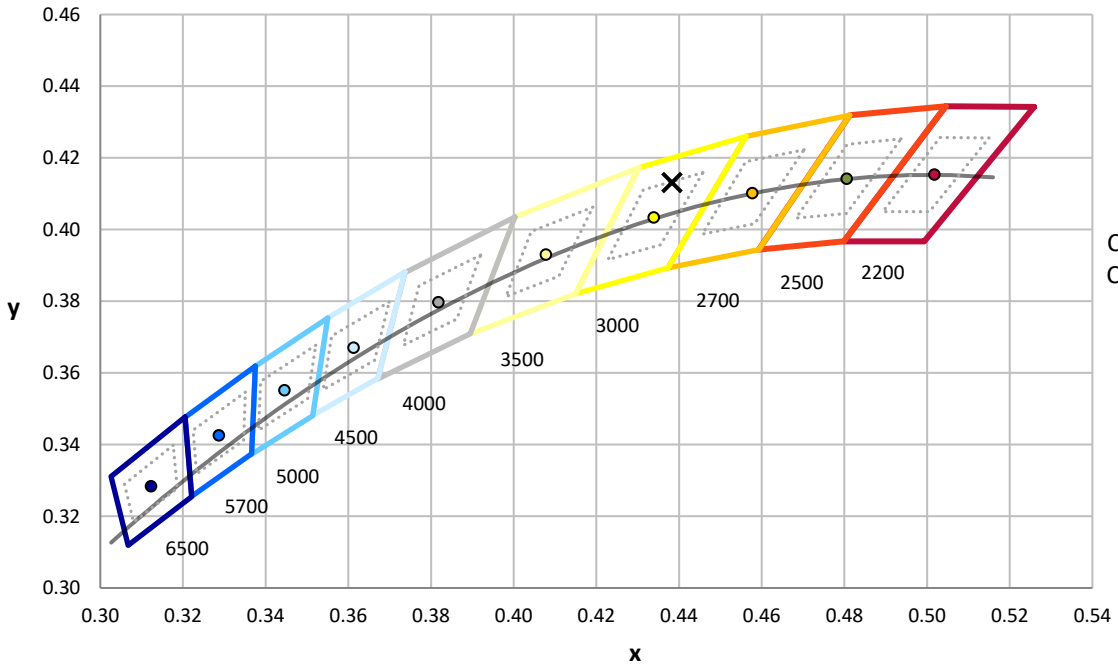
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

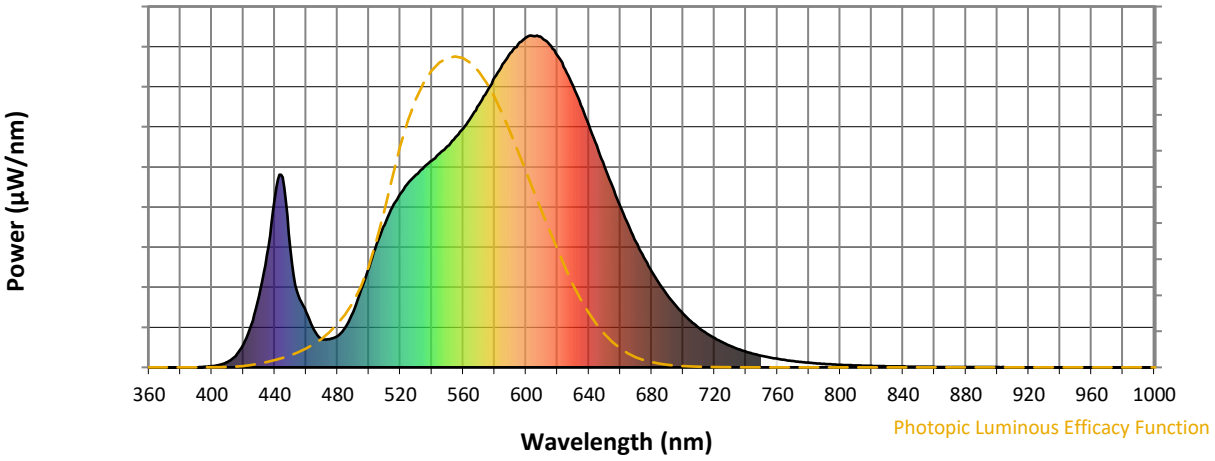


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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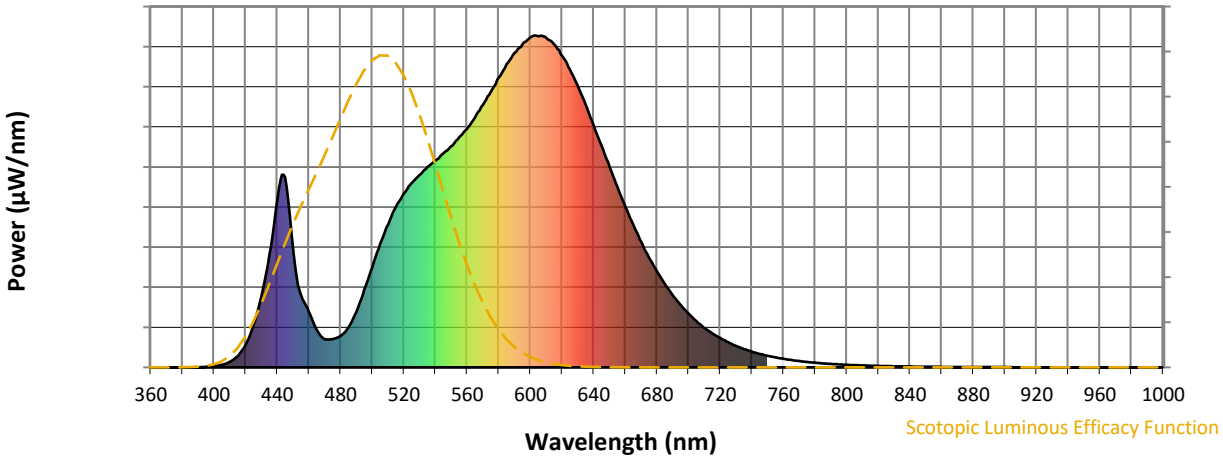
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.27**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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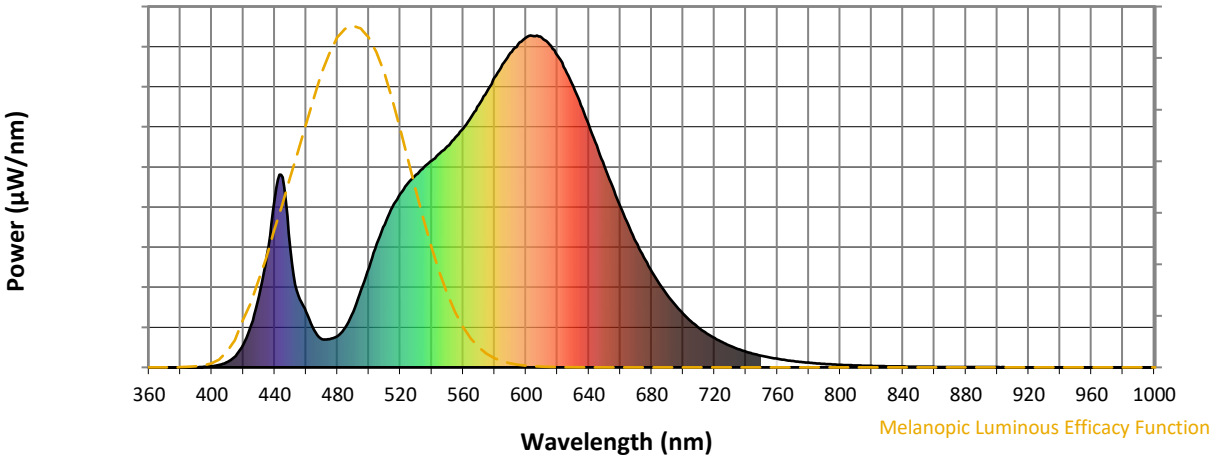
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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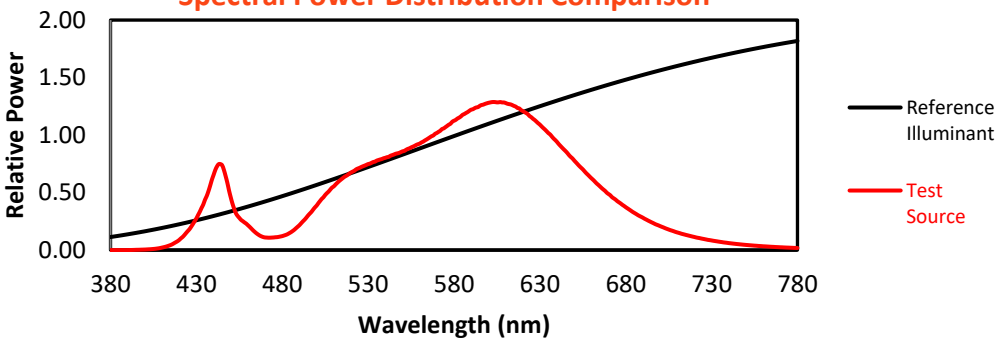
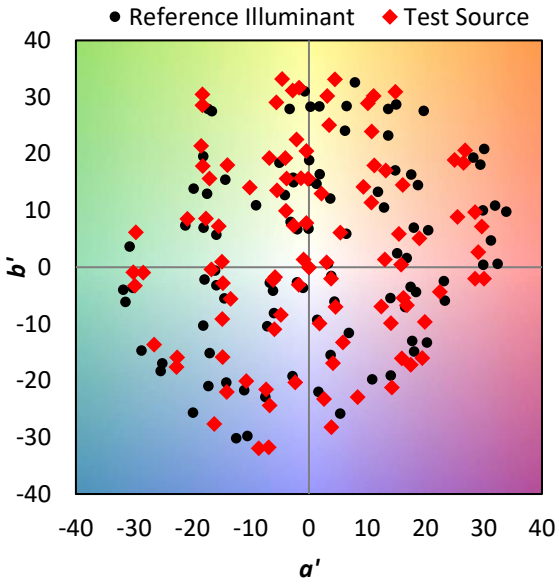
Summary

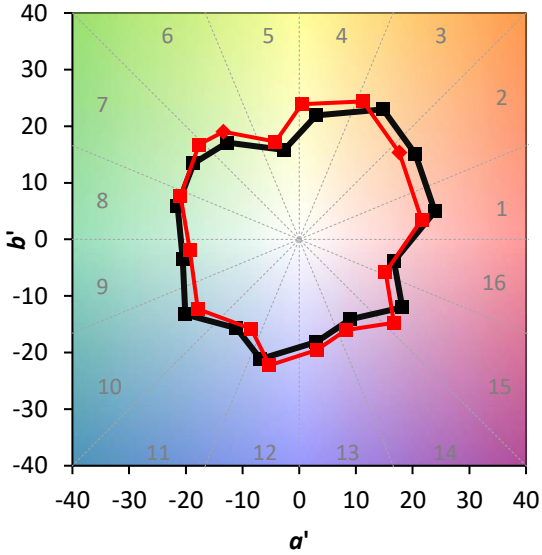
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

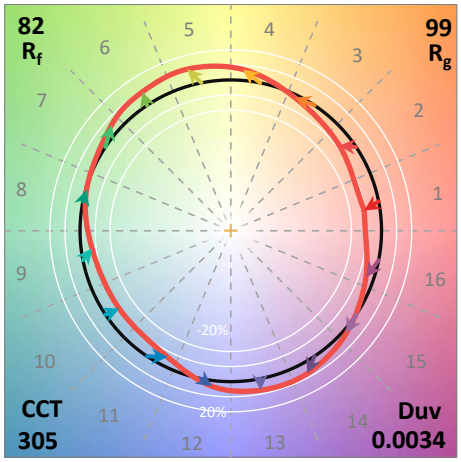
Spectral Power Distribution Comparison

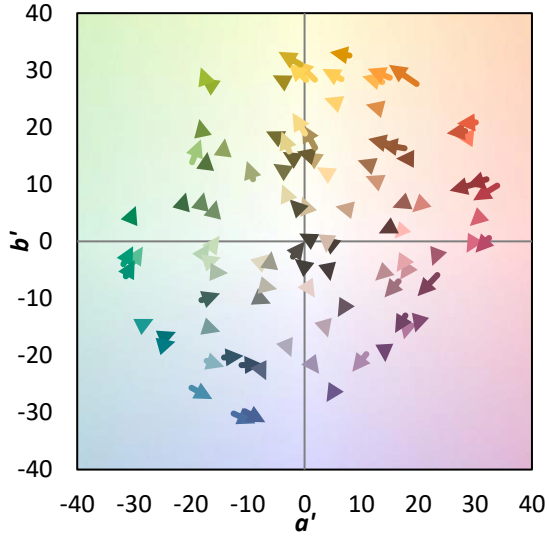


Color Vector Graphics









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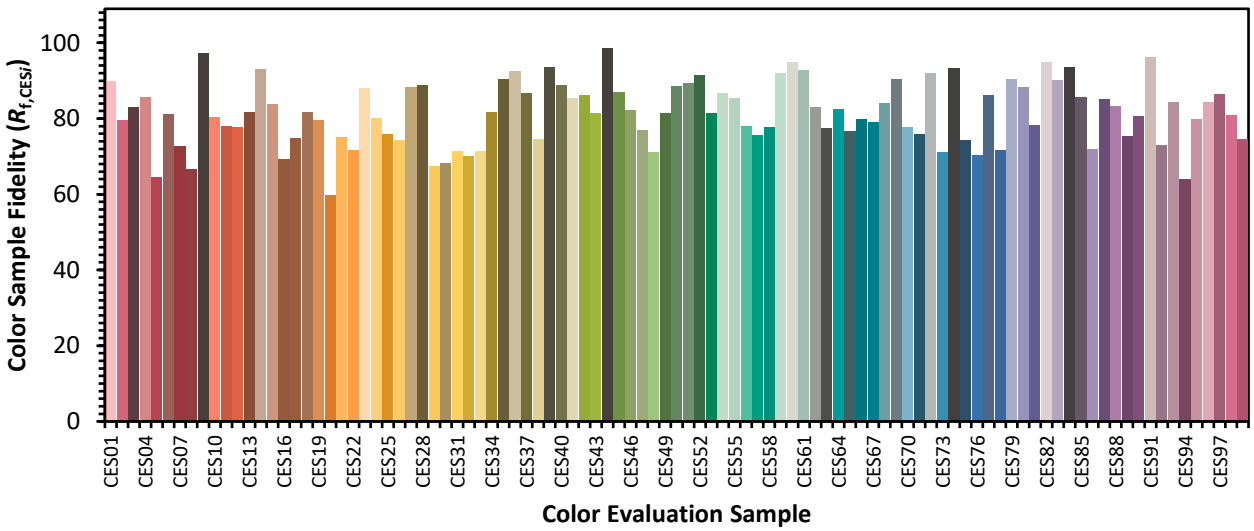
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



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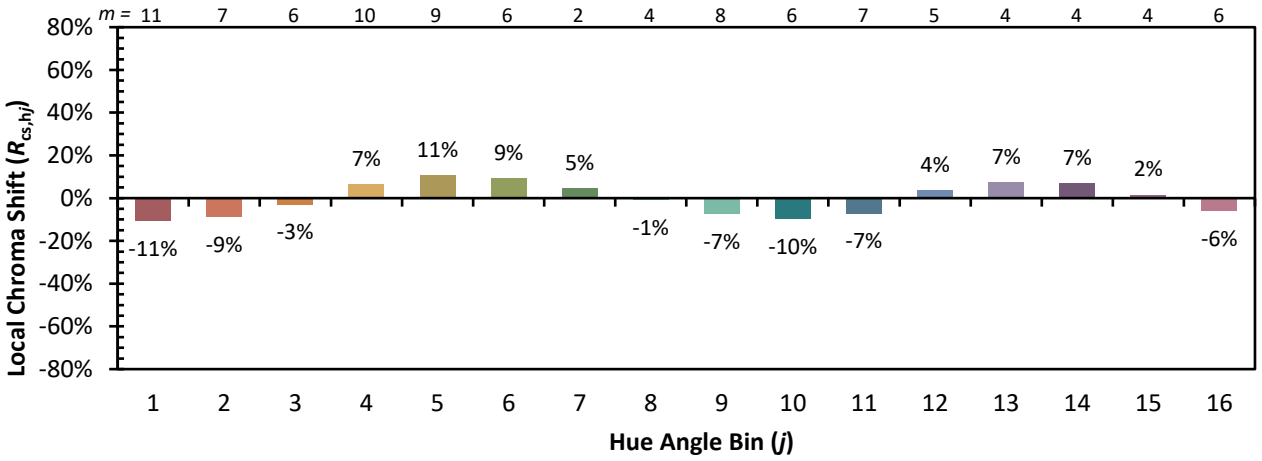
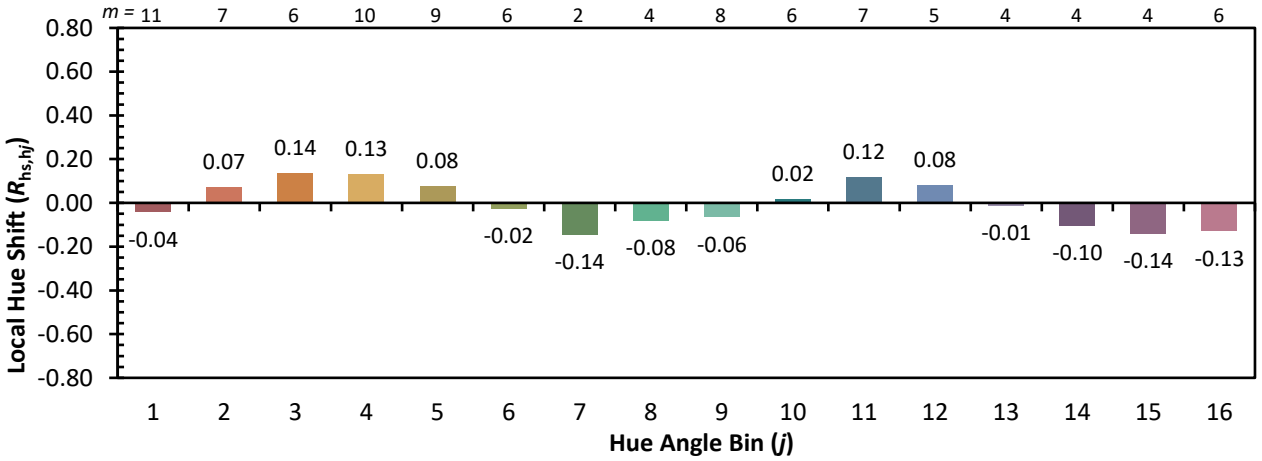
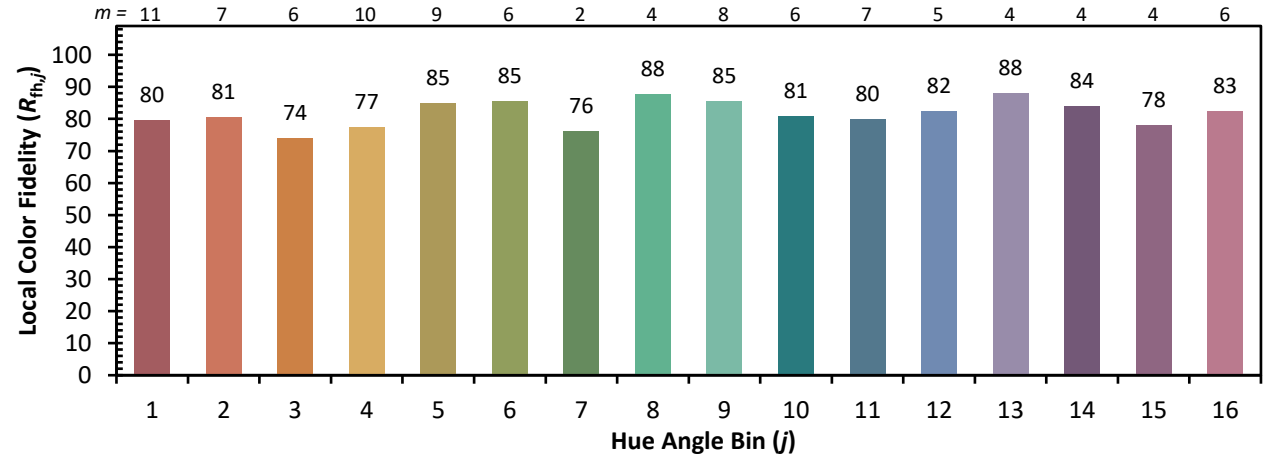
Color Rendition by Hue-Angle Bin







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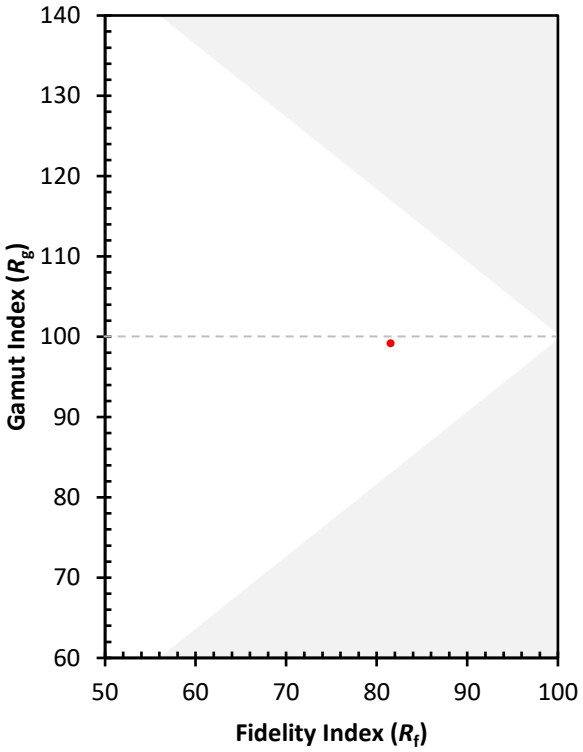
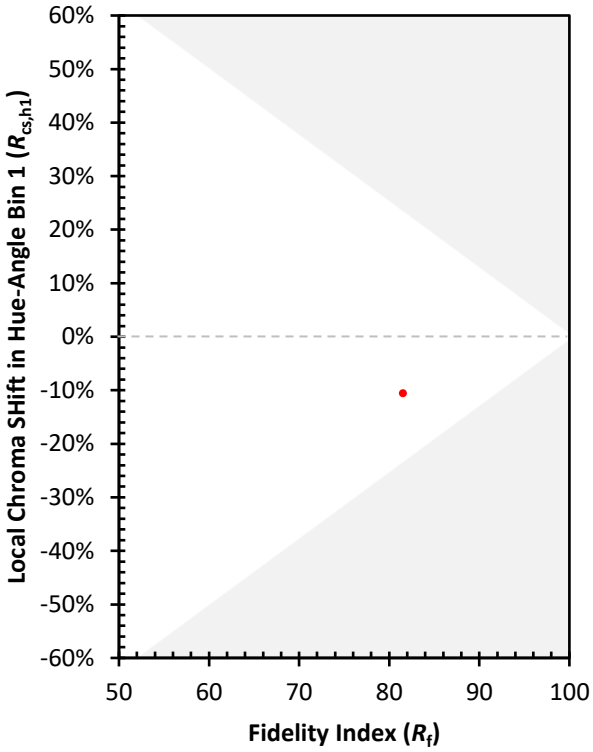
Measure Comparisons





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